

Syntheses of Vinyl Monomers. III. Concerning the  
Syntheses of Vinyl Esters From Aceto- and Chloro-  
mercuriacetaldehydes and Concerning the Mechanism of  
These Reactions, by A. Ya. Yakubovich, V. V. Razumovskiy,  
Z. N. Vostrukhina, S. M. Rozenshtein, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 7,  
1958, pp 1930-1936.

Consultants Bur

Sci - Chem

96,883

(DC-6330)

Automatic Device for Measuring and Recording  
the Coefficient of Heat and Moisture, by  
Yu. L. Rozenshtok, 14 pp.

RUSSIAN, per, Mez 1 Gid, No 8, 1961, pp 52-55.

JPRS 11504

Sci - Geophys  
Jun 62

178,690

Utilization of Thermistors for Correcting  
Differential Temperature-Difference Measuring  
Circuits, by N. A. Kaganov, Yu. L. Rosenblat,  
4 pp.

RUSSIAN, per, Izmeritel Tekh, No 9, 1961,  
pp 22-24.

IRA

Sci

Jan 62

201,514

Determination of the Characteristics of  
Semiconductor Thermistors used in Measurements,  
by M.A. Kaganov, Yu.L. Rozenshtok, 3 pp.

RUSSIAN, per, Priborostroyeniye, No 3, 1960,  
pp 5-6.

Taylor & Francis

Sci  
Jan 61

137,271

DESIGNING THE WORLD'S LARGEST BLAST FURNACE,  
BY M. B. ROZENSHTRAKH, M. B. KUTNER, 11 PP.

RUSSIAN, PER, METALLURGICHESKAYA I GORNORUDNAYA  
PROMYSHLENNOST', NO 5, SEP-OCT 1962, PP 3-7.

JPRS 17143

USSR  
ECON  
SCI - ENGR  
JAN 63

219,458

Comparison of Angiographic and Bronchographic  
Data in Central Forms of Lung Cancer, by L. S.  
Rozenshtaukh, M. L. Semenovskiy, 8 pp.

RUSSIAN, per, Voprosy Onkol, Vol VI, No 10,  
1960, pp ~~51-54~~. 46-51.

XX PP

Sci  
Jun 61

158,388

Comparison of Angiographic and Bronchographic data  
in the Peripheral form of lung Cancer; by L. S.  
Rozenshteyn, M. L. Samonovskiy, 8 pp.

RUSSIAN, per, Voprosy Onkol, Vol VI, No 11, 1960,  
pp 33-38.

PP

164,796

Sci-

Aug 61

The Bronchial Tree in Lobar and Zonal Atelectasis  
and Cirrhosis of the Lungs, by V. Ya. Fridkin,  
L. S. Rozenshtaukh, 8 pp.

RUSSIAN, per, Voprosy Onkologii, Vol V, No 10,  
1959, pp 425-431.

PF

Sci

Aug 60

124,276



First All-Russian Conference of Roentgenologists  
and Radiologists, by L. S. Rozenshtaukh, 24 pp.

RUSSIAN, per, Byull Uchenogo Medit Soveta,  
No 2, Mar/Apr 1962, pp 22-27.

JPRS 15477

Sci - Med  
Oct 62

212,401

S-5147

(NY-2568)

The Seventh All-Union Congress of Roentgenology  
and Radiology, by Yu. M. Sokolov, V. M.  
Bentsyanova, L. S. Rozenshtaukh, 20 pp.

RUSSIAN, per Vest Rentgenolog i Radiolog, No 1,  
Jan/Feb 1959, pp 82-90.

JPRS-L-830-N

Sci - Med

Jun 59

90,258

The Significance of Bronchography in the Diagnosis of  
Spherical Lung Cancer, by L. S. Rozenshtraukh, 6 pp.

RUSSIAN, per, Voprosy Onkolgoiy, Vol III, No 5,  
1957, pp 578-583.

Pergamon Inst

Sci - Med  
Jan 59

78,657

Investigation of Electrocardiographic Indices and  
Myocardial Oxygen Consumption Under Conditions of an  
Extracorporeal Circulation, by Ye. N. Ashcheulova,  
L. V. Rozenshtaukh, A. V. Trubetskoy, 6 pp.

USSR, per, Eksp. Khirurgiya, Vol V, No 6, Moscow,  
Nov/Dec 1960.

JPRS 7900

Sci  
Apr 61

145,354

Producing Alumina by Sintering Aluminosilicates  
With Limestone, Soda, and Reducor, by R. C.  
Rozenstreter, N. S. Berseneva, 8 pp.

RUSSIAN, per, Sovet Metal, Vol IV, No 7,  
1963, pp 42-47.

Primary Sources

Sci  
Jan 64

270,388

Dehydrogenation of Isopentane by Chromium Oxide-  
Aluminum Oxide Catalysts, by Chang Chao-lan,  
K. P. Lavrovskiy, A. A. Rozental', 10 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I, No 4, 19  
pp 583-592.

CB

Sci

172, 768

Oct 61

Chemical Reactions Between Gases and Solids in a  
Fluidized Bed. II. Reactions in a System of  
Constant Gas Composition, by A. L. Rozental'.  
8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol III, No 3,  
1962, pp 402-410.

CB

Sci

Apr 63

233,678

Rozental, A. L.

KINETIC ANALYSIS OF CHEMICAL PROCESSES OF  
INTERACTION OF GASES WITH SOLID BODIES IN  
A FLUIDIZED BED. [1962] 5p.  
Order from ATS \$8.25

ATS-37P66R

Trans. of Kinetika i Kataliz (USSR) 1962, v. 3, no. 4,  
p. 541-544.

DESCRIPTORS: \*Fluidized solids, Gases, Solids, Re-  
action kinetics, Chemical reactions.

(Engineering--Chemical, TT, v. 9, no. 7)

63-12636

- I. Rozental, A. L.
- II. ATS-37P66R
- III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

230422

Office of Technical Services



Chemical Reactions of Gases With Solid Bodies in  
a Fluidized Bed, by A. L. Rozental', 9 pp.

RUSIAN, per, Kinetika i Kataliz, Vol II, No 6,  
1961, pp 838-846.

CB

Sci  
Sep 62

210,450

Oxidation-Reduction Kinetics of Hydrogen, Oxygen,  
and a Stoichiometric Oxygen-Hydrogen Mixture at  
a Platinum Electrode in Electrolyte Solutions, by  
K. I. Rozental', V. I. Veselovskiy, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXV, No 10,  
1961, pp 2256-2264.

Cleaver-Hume Press

Sci  
Sep 62

210,535

Reaction of Iron Ores With Methane in a Fluidized  
Bed, by K. P. Lavrovsky, A. I. Rozental, A. Kh.  
Eglit, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 4,  
1957, pp 724-727

Consultants Bureau

Sci - Chemistry  
Jul 58

66,614

Conducting Chemical Reactions in a Fluidized Bed,  
by K. P. Lavrovskiy, A. L. Rozental.

RUSSIAN, per, Trudy Inst Nefti Ak Nauk SSSR, Vol VIII,  
1956, pp 94-99.

ATS RJ-129<sup>2</sup>

Sci - Chem  
Apr 60

114,559

The Kinetics of the Regeneration of Powdered Catalysts, by K. P. Lavrovskiy, A. S. Rozental, 15 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 6, 1955, pp 140-148.

Sci Tr Center  
RT-3951

37,904

Sci - Chemistry, Engineering

Aug 1956

The Influence of Temperature Change on the Excitability  
of the Heart Muscle of the Frog, by D. N. Masanov, D. L.  
Rozenental', 6 pp.

RUSSIAN, bk, Voprosy Tsitologii i Protistologii,  
Sbornik Rabot, 1960.

OTS 61-31010  
PL-480

Sci

Jun 62

PST 545

197,673

D. N. Nasonov's Theory of Gradual Excitation, by D. L. Rozental', 14 pp.

RUSSIAN, bk, Voprosy Tsitologii i Protistologii, Sbornik Rabot, 1960.

OTS 61-31019

0

PL-480

Sci

Jun 62

197,670

PST 545

A Possible Electrical Mechanism in the Irradiation  
of Muscle Tissue Damage, by D. L. Rozental, 6 pp.

RUSSIAN, per, Fiziol Zhur SSSR imeni I. M. Sechenov,  
Vol XLV, No 11, 1959, pp 1348-1352.

Pergamon Press

Sci

May 60

116,954



(DC-3356)

Transmission of Excitation in the Giant Axon of  
the Squid, by A. A. Lev, N. N. Nikol'skiy, D. L.  
Rozental', Ye. A. Shapiro, 6 pp.

RUSSIAN, per, Tsitologiya, Vol I, No 6, 1959,  
pp 665-671.

JPRS 3628

Sci - Med

Aug 60

122,901

The Relation of the Sorption of a Vital Dye by the  
Spinal Ganglia of the Frog and the Functional State  
of these Tissues, by A. A. Lav, D. L. Rozental,  
9 pp.

*Russian.*  
~~Full Translation of Soviet Periodical Biofiz~~, Vol  
III, No 4, 1958., 421-424.

Pergamon Inst.

Sci - Biol

Apr 59

86,046

NEW DATA ON CHANGES IN THE CELL SUBSTANCE FROM  
HEART AND EXCITATION, BY O. L. ROZENTAL,  
A. S. YERSHIN, 18 PP.

RUSSIAN, PER, VITIOLOGIYA, VOL. V, NO. 4, PP. 365-378.

JPRS 2194

SCI-BIOL & MED SCI  
NOV 63

219,210

(FDD 25892)

More on the Measurement of the Excitability of  
Conducting Tissues, by D. N. Nasonov, D. L.  
Rozental', 24 pp.

RUSSIAN, bimo per. Fiziol Zhur SSSR, Vol. XLI,  
No 1, Moscow/Leningrad, Jan/Feb 1955, pp 121-131.

CIA/FDD/U-7766

USSR

Sci - Medicine, neurophysiology

Jan 56 CTS/DEX

31, 339

S-5229

(NY-2637).

The Relationship of Stimulus Intensity to the Magnitude of the Local Electrical Response in the single Giant Axon of the Squid, by A. A. Lev, N. N. Nikol'skiy, D. L. Rosental', Ye. A. Shapiro, 16 pp.

RUSSIAN, per, Tsitologiya, Vol I, No 1, 1959, pp 94-104.

JPRS-1802-H

94, 301

Sci - Med, Cytology  
Aug 59

NEWLY DEVELOPED ELECTRIC LIGHTING FIXTURES,  
BY E. S. ROZENTAL', ~~RXXX~~ 5 PP.

RUSSIAN, PER, SVETOTEKHNKA, NO 11, NOV  
1962, PP 28-30.

JPRS 17094

USSR  
ECON  
JAN 63

219,298

The Origin of High-energy Cosmic-ray Muons and  
Photons and the Hyperon Hypothesis, by  
Yu.S. Kotov, I.I. Rozental, 5p.

RUSSIAN, per, Zhur'ksper i Teoret Fiz, Vol VIII,  
no 1, 1962, pp 1411-1418.

Amer Inst of Phys  
Sov Phys-JETP  
Vol VII, no 1

Sci

Apr 63

233, 319

The Two-Center Model and the Hydrodynamical Theory  
of the Multiple Production of Particles, by A. A.  
Emel'yanov, I. L. Rozental', 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXVIII,  
No 1, 1960, pp 194-197.

Amer Inst of Phys  
Sov Phys - JETP  
Vol XI, No 1

Sci  
Aug 60

122,165



The Nature of Narrow Atmospheric Showers, by S. A.  
Kushn<sup>g</sup>er, I. L. Rosental. UNCL

RUSSIAN, per, Dok Ak Nauk SSSR, Vol IX, No 9,  
1948, pp 1523-1526.

DSIR Landing Library Unit M. 185

Sci - ~~Atmospheric~~ Phys  
Apr 59

85,862

Determination of the Energy of Fast Particles  
From the Angular Distribution of their Reaction  
Products, by A. I. Nikishov, I. L. Rozental',  
3 pp.

RUSSIAN, par, Zhur Eksp'er i Teoret Fiz, Vol XXIV,  
No 1(7), 1958, pp 165-169.

Amer Inst of Phys  
Sov Phys-JHEP  
Vol VIII(35), No 1

Sci - Phys

Feb 59

82,151

Hydrodynamical Interpretation of One Characteristic  
of Large Showers Recorded in Photographic Emulsions,  
by G. A. Milekhin, I. L. Rozental', 2 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIII,  
No 1, 1957, pp 197-199.

Amer Inst of Phys  
Sov Phys-JETP  
Vol VI, No 1

Sci - Physics  
May 58

62,791

Some Problems Related to the Statistical Theory  
of Multiple Production of Particles, by V. M.  
Maksimenko, I. L. Rozental', 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXVII,  
No 21, Nov-1957, pp 658-666.

4

Amer Inst of Phys  
Sov Phys-JETP  
Vol V, No 4

58,067

Sci - Physics  
Jan 58

A Quasi-Undimensional Interpretation of the Hydrodynamic  
Theory of Multiple Particle Production, by I. L. Rosental', 8 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz SSSR,  
Vol XXI, Aug 1956, pp 278-288.

Amer Inst Physics  
Soviet Physics JNP  
Vol IV, No 2

Sci - Physics

46,065

V  
The Fermi Theory of Multiple Particle Production  
in Nucleon Encounters, by I. L. Rozental, 4 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,  
Vol XXVIII, No. 1, 1955, pp 118-120. CIA C 40845

American Inst of Physics  
57 East 55 St.  
New York 22, N. Y.

Scientific - Physics

31,281

Electronic - Nuclear Showers of Cosmic Rays  
and the Nuclear - Cascade Process, by N. G.  
Birger, V. I. Veksler, N. A. Dobrotin, G. T.  
Zatsepin, L. V. Kurnosova, A. L. Lyubimov,  
I. L. Rozental' and L. Kh. Eyfus. m

RUSSEAN, per, Zhur Ekaper i Teoret Fiz, Vol 19,  
No 9, 1949, pp 826-850.

Sci Museum Lib No 50/3263 - London

A-787

Cascade Processes in Wide Atmospheric Showers of  
Cosmic Rays, by I. L. Rozental, 17 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz, Vol XXIII,  
No 4, 1953, pp 440-455.

Sci Museum Lib No 54/0697

Scientific - Nuclear Physics

May 54 CTS

14,114



Fluctuations During Collision of High Energy  
Particles, by M. I. Podgoretskiy, I. L. Rozental,  
D. S. Chernavskiy, 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol  
XXIX, No 3, 1955, pp 296-303.

American Inst of Physics  
Soviet Physics, Vol II, No 2

Sci - Physics  
Feb 57 CRS

43,809

Wide Showers of Cosmic Rays, by M. A. Dobrotin,  
G. T. Zatsepin, I. L. Rozental', ~~and others~~  
L. I. Sarycheva, G. B. Christiansen, L. Kh.  
Eydus, 37 pp

RUSSIAN, per, Uspekhi Fiz Nauk, Vol XLIX, No 2,  
Feb 1953, pp 185-242.

14,428

USSR

Scientific - Astronomy

~~SECRET~~  
~~US OFFICIALS ONLY~~  
CIA/FDD/Z-107  
US OFFICIALS ONLY

Passage of High Energy Neutrons through Matter, I.  
M. Kuznetsov and V. N. Strizhevskiy, 5 pp. 246

RUSSIAN, <sup>6</sup>FEZ, Zhur Eksper i Teoret Fiz, Vol XLIV,  
No 6(12), 1959, pp 1440-1446.

Amer Inst of Phys  
Sov Phys - JETP  
Vol VIII(35), No 6

Sci - Phys

Jun 59

89,675

NEZLIN, M. V.  
ROZENTAL', I. L.  
~~SLAVATINSKIY~~, S. A.

Narrow Atmospheric Showers of Cosmic Ray Particles,

RUSSIAN, Dok Ak Nauk SSSR, Vol LXV, No 5, 1949,  
pp 641 - 644.

AEC Tr 471

Sci Mus Lib 50/2311

June 1951 CTS

A-8451

Effect of Starvation on Conditioned Reflexes,  
by I. S. Rozental,  
RUSSIAN, per, Arkhiv Biologii Nauk, Vol 21, 1962,  
pp 151-158  
HLL RDS 3568  
(ON LOAN OR PURCHASE)

*I. S. Rozental*

Sci - Biochem  
May 67

325,877

Investigation of the Mechanism of Oxygen Evolution  
at a Silver Electrode Using the Oxygen Isotope  
<sup>18</sup>O, by K. I. Rozental', V. I. Veselovskiy,  
~~pp/2670-2675/~~ 3 pp.

RUSSIAN, per, Zhur Fiz Khim, No 12, 1961,  
pp 2670-2675.

Cleaver-Hume Press

Sci

Oct 62

214,459

Oxidation-reduction Kinetics of Hydrogen, Oxygen, and  
a Stoichiometric Oxygen-hydrogen Mixture at a Gold Electrode  
in Normal Sulphuric Acid, by K. I. Rozental,  
V. I. Veselovskiy, 3 pp.

RUSSIAN, per, Zhur Fiz Khim, No 11, 1961, pp 2481-  
2486.

Cleaver-Hume Press

Sci

Aug 62

213,702

Study of the Kinetics of Electrode Reactions  
by Means of Alternating Currents. Part 2.  
Discharge of Mercury Ions. Formation of an  
Adsorption Layer of Chlorine and Oxygen on a  
Mercury Electrode. Formation of Mercury Oxide,  
by K. Rozental', B. Ershler,

RUSSIAN, per, Zhur Fiz Khim, Vol XXII, No 11,  
1948, pp 1344-1359.

Assoc Tech Svc  
~~Sci Tech Center~~  
RJ-141

18,791

Scientific - Chemistry



Study of the Aetiology of Measles-I. Isolation  
of Measles Virus by direct infection of Fertile  
Eggs, by K. M. Rozental', L. P. Kopytovskaya,  
5 pp.

RUSSIAN, per, Vopr Virusol, Vol V, No 5, 1960,  
pp 572-577.

PP

165,058

Sci  
Aug 61

Rozental, K. I. and Veselovskii, V. I.  
STUDY OF THE MECHANISM AND THE KINETICS  
OF THE REACTION OF ELECTROCHEMICAL  
OXIDATION BY THE METHOD OF ANODIC POLAR-  
OGRAPHY ON THE PLATINUM ELECTRODE. [1962]  
13p. (11 figs. omitted) 10 refs.  
Order from OTS or SLA \$1.60

62-16539

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1953,  
v. 27, no. 8, p. 1163-1171.

DESCRIPTORS: \*Electrochemistry, \*Platinum  
electrodes, Oxidation, \*Polarographic analysis,  
Reaction kinetics.

There is developed a new method for taking anodic  
polarograms on the rotating platinum microelectrode  
which enables its employment for analytical purposes  
and for studying the mechanism of complicated  
(Chemistry--Physical, TT, v. 8, no. 10) (over)

62-16539

I. Rozental, K. I.  
II. Veselovskii, V. I.

C226265

Office of Technical Services

Application of Polarization by Alternating Current  
to the Investigation of Discharge of Metallic Ions,  
by B. V. Ershler, K. I. Rozental,

RUSSIAN, per, Trudy Soveshchaniya Elektrokhim Akad Nauk  
SSSR, Otdel Khim Nauk, 1953, pp 446-450.

EX Assoc Tech Sv RJ-454.

Sci - Electricity 36, 965 \$8.05

Aug 1956

PO Box 271, East Orange, N. J

A Study of the Properdin System. Rpt I. A Simplified  
Method of Estimation of Properdin, by K. M. Rozental,  
G. B. Savel'vol'f,

RUSSIAN, PER, Byul Eksper Biol i Med, Vol XLVIII,  
No 11, 1959, pp 122-.

CB

Sci -  
Jul 60

120,967

TT-65-13915

Field 14E

Rozental, L. V.  
LAWS OF THE PLASTICIZATION PROCESS OF  
CELLULOSE TRIACETATE SUPPORT. 17p, 9 refs.  
Order from SLA: \$1.60 as TT-65-13915

Trans. of Tekhnika Kino i Televideniya (USSR)  
v8 n10 p53-8 1964.

MR 668

Plasticizing Action of Compounds which Dissolve  
Cellulose Triacetate, by L. V. Rozental,  
F. G. Zhurina, 7 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XIV, No 11, 1962,  
2496-2503 pp.

CB

Sci  
Oct 63

242,056

Lacquer Coatings Based on Colloidal Dispersions  
of Carbon Black in Cellulose Acetate Phthalate  
Esters, by L. V. Rozental, G. I. Burdygina, 5 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXII, No 9,  
1959, pp 2080-2083.

CB

Sci

Aug 60

124,236

(NY-4400/11)

Several Trends in Contemporary Bourgeois Aesthetics,  
by G. Kursanov, M. Rozenal', 13 pp.

RUSSIAN, per, Kommunist, No 3, Feb 1961, pp 99-108.

JPRS 8380

USSR

Pol

Jul 61

157,021



Conditions for the Most Efficient Magnetic  
Reversal in Cores With a Square Hysteresis Loop  
Within an Assigned Time Interval, by Yu. D. Rozental'  
8 pp.

RUSSIAN, per, Avtomat i Telemekh, Vol XXXIV, No 11,  
1963, pp 1565-1572.

ISA

Sci  
May 64

259,665

(DC-3000/36)

Kazakhstan Coal Balance, by Yu. M. Rozental,  
G. Ye. Khrapkov, 9 pp.

RUSSIAN, per, Iz Ak Nauk KazSSR, Ser Ekon,  
Filosofii i Prava, No 2 (13), 1960, pp 32-37.

JPRS 7982

USSR

Econ

Apr 61

147,806

The Development of Ferrous Metallurgy in China,  
by A. B. Rozentreyer, 3 pp.

RUSSIAN, per, Metallurg, No 10, 1959,  
pp 32-35.

Acta Metallurgica

Sci

Apr 61

144, 453

~~On the Theory of Steam-Jet Vacuum Pumps, by I. M.~~  
Lifshits, L. N. Rozentsveig, 3 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 7,  
1955, pp 1323-1325.

AEC Tr 2708

SLA R-1408

May 58

63,169

Scattering of Electrons by Protons, by A. I.  
Akhiezer, L. E. Rozentsveig, I. M. Shmushkevich,  
6 pp.

RUSSIAN, per, Zhur Eksper 1 Teoret Fiz, Vol 3, <sup>3</sup>  
No 3 (9), 1957, pp. 765-772.

Amer Inst of Phys  
Sov Phys-JETP  
Vol 6(33), No 3

Sci - Phys

Jun 58

65,159

Bremsstrahlung of Polarized Electrons, by G. I.  
Visotskiy, A. A. Kresnin, L. N. Rozentsveig, 4 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXII,  
No 5, 1957, pp 1078-1082.

Amer Inst of Phys  
Sov Phys-JETP  
Vol V, No 5

Sci - Phys

Mar 58

59,471

(NY-1259)

Chairs of Experimental, Theoretical, and General  
Physics of the Physicomathematical Faculty (1930-  
1955), by B. I. Verkin, A. S. Mil'ner, L. N.  
Rozentsveyg, Ya. B. Faynberg, V. I. Khotkevich,  
I. N. Saklyarevskiy, 8 pp. UNCLASSIFIED

RUSSIAN, irreg par, Uchenyye Zapiski, Vol LX,  
Trudy Fizicheskogo Otdeleniya Fiziko-Matematicheskogo  
Fakul'teta, Vol V, Khar'kov, 1955, pp 69-75.

NY-361  
US JPRS/

Sci - Physics  
Apr 58

62,295

Effect of Sulphur on an Iron Electrode in Alkaline  
Solution, by S. A. Rozentsveig, Z. V. Shcherbakova,  
3 pp.

RUSSIAN, per, Zhur Fiz Khim, No 11, 1961, pp 2547-  
2552.

Cleaver-Hume Press

Sci

Aug 62

213,695



The Electrochemical Properties of Cadmium in Alkaline  
Solutions, by S. A. Rozentsveyg.

RUSSIAN, PER, Trudy Sovetskoye Elektrokhim Akad Nauk  
SSSR, Otdel Khim Nauk, 1953, pp 571-578.

Assoc Tech Sv RJ-455

36,966 \$10.85

PO Box 271, East Orange, N. J

Sci - Electricity, Chemistry

Aug 1956

CIA D 9015118

CERTAIN QUESTIONS IN A THEORY OF TRANSLATION ASSOCIATED WITH THE OVERALL PROBLEM OF AUTOMATING INFORMATION PROCESSES, BY I. I. REYZIN, V. YU. ROZENCHEVTS, 22 PP.

RUSSIAN, PER, NAUCHN TEKH INFORMAT, NO 9, 1963, PP 32-37.

JPRS 22415

SCI-MATH & DATA PROCESSING  
JAN 64

245,106

Certain Linguistic Problems in Machine Translation,  
by T. N. Moloshnaya, V. A. Purto, I. I. Revzin,  
V. Yu. Rozentsveyg, 12 pp. UNCLASSIFIED

<sup>bimo</sup>  
RUSSIAN, ~~per~~, Voprosy Yazykozheniya, No 1, 1957,  
Moscow, pp 107-113.

US JPRS/DC-68

(DC-1501) (DC-1750)

Sci - Engineering  
Apr 58

61,188

Crystallization of Pyrite from Gels of Complex  
Composition, by A. O. Rozentsvit, G. Yu.  
Epshteyn, 3 pp.  
RUSSIAN, per, Dok Ak Nauk SSSR, Earth Science  
Sections, Vol CL, No 1-6, May, Jun 1963.

Amer Geol Inst

X Sci  
Jul 65

Hydrothermal Argillization of Rocks in Eastern  
Transbaikalia, by A. O. Rozentsvit, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXX, No 3,  
1962, pp 599-602.

AGI

Sci

May 61

153, 148

Hydrothermal Metasomatism of Proterozoic Rocks  
in the Olekma-Vitim Highlands, by A. O.  
Rozentavit, 13 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geol, No 5,  
1959, pp 74-80

ADU

Sol  
Feb 61

138,429

The Alkaline Phosphatase Content of the Blood in  
Women During Pregnancy, Labour and the Puerperium  
During the Polar Winter, by E. B. Rozental,

RUSSIAN, per, Soviet Med, No 7, 1960, pp 119-123.

MLL RTS 1941

Sci - Med

*188, 935*

Mar 62

The Absolute Stability of Nonlinear Systems  
By E. N. Rozenvasser, pp. 9

RUSSIAN, per, Avtomat i Telemekh, Vol XXIV,  
No 3, 1963, pp. 304 - 313

ISA

Sci

240-889

Oct 63



On the Exact Determination of Oscillations in Piece-  
wise-Linear Continuous Systems

By E. N. Rozenvasser, p. 7 *2p.*

RUSSIAN, per, Avtomat i Telemekh, Vol XVIII, No 11,  
1962, pp. 1414 - 1420

ISA

Sci

Aug 63

342,453

The Theory of Piecewise-Linear Systems with Periodically Varying Parameters, by E. N. Rozenvasser, 6 pp.

RUSSIAN, per, Avtomat i Telemekh, Vol XXIII, No 1, 1962, pp 122-127

ISA

Sci

Aug 62

213,266

On the Accurate Determination of Periodic Regimes in  
Sectionally Linear Automatic Control Systems, by  
E. N. Rozenvasser, 9 pp.

RUSSIAN, per, Avtomat i Telemekh, Vol XXI, No. 9, 1960,  
pp 1279-1292.

IBA

Sc1

Jun 61

158,550

Remark on a Method of Constructing Liapunov  
Functions, by E. N. Rozenvasser, 6 pp.

RUSSIAN, per, Prikl Matemat i Mekh, Vol XXIV, No 4,  
1960, pp 746-749.

PP

Sci

Jun 61

158, 184

Stability of Nonlinear Controlled Systems, by E.  
H. Rozenvasser, 6 p.

RUSSIAN, per, Avtomat i Telemekh, Vol XX, No 6,  
1960, pp 702-707.

Instru Soc of Amer

Sci

Apr 60

112, 549

On the Stability of Nonlinear Control  
Systems, by E. N. Rozenyasser,  $\frac{1}{2}$  pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol,  
CXVII, No 4, 1957, pp 582---585.

Consultants Bureau

Sci - Physics *also by \*ATIC F-TS-95-25/v*

Oct 58

*74, 387*

On the Stability of Nonlinear Control Systems  
Described by Fifth and Sixth Order Differential  
Equations, by E. N. Rozenwasser, 12 p.

RUSSIAN, per, Avtomat i Telemekh, Vol XIX, No 2,  
1958, pp 101-113.

Instru Soc of Amer

Sci

Apr 60

111,747

Compounds Containing a Three-Membered Oxide Ring.  
II. The Reaction of Ethyl- $\beta$ , $\beta'$ -dimethylglycidate  
With Hydrogen Sulfide, by V. F. Martynov, M. A.  
Rozapina, 4 pp. UNCLASSIFIED

RUSSIAN, no per, Zhur Obshch Khim, No 9, 1952,  
pp 1577-1579.

Consultants Bureau

Scientific - Chemistry

CTS/DEX

17,000



On Forced Oscillations and Stability of Quasi-  
Harmonic Systems, by E. N. Rozenvasser, 14 pp.

RUSSIAN, per. Prikl Matemat i Mekh, Vol XXV, No 2,  
1961, pp 284-293.

PP

172,954

Sci

Oct 61

On Reducing the Equation of a Nonlinear Control  
System to the Simplest Form, by E. H.  
Rozenyasser.

RUSSIAN, per, Avtomat i Telemekh, Vol XXI, No 1,  
1960, pp 15-19.

Internatl Phys Index  
Automation Express  
Vol II, No 8

Sci - Phys

Jun 60

120,205

Rozenvasser, Ye. N.

A REMARK ON ONE CONSTRUCTION METHOD OF  
THE LIAPUNOV FUNCTION. [1961] 8p. 7 refs.  
Order from OTS or SLA \$1. 10 61-10750

Trans. of \*Prikladnaya Matematika i Mekhanika (USSR)  
1960, v. 24, no. 4, p. 746-749.

DESCRIPTORS: Applied mathematics, Functions,  
\*Control systems.

Given the vector differential equation  $\dot{x} = Bx + Hf(\sigma)$   
where  $\sigma = L'x$  and  $x$  is a vector,  $B$  is an  $n \times n$  matrix,  
 $H$  is an  $n \times 1$  matrix,  $L'$  is a  $1 \times n$  matrix, and  $\sigma$  and  
 $f(\sigma)$  are scalars, it is shown that (1) if the control is  
subject only to the restriction that  $\sigma f(\sigma) > 0$  there does  
not in general exist a Liapunov function of the form  
 $V = 1/2 x' M x + \int_{\sigma}^{\infty} f(\sigma) d\sigma$  that will guarantee asymptotic  
stability even though the controlled plant is asymptoti-  
cally stable, and (2) if the control is subject to the re-  
striction  $c_1 \sigma^2 < \sigma f(\sigma) < c_2 \sigma^2$  conditions sufficient for  
(Mathematics, TT, v. 6, no. 1) (over)

61-10750

1. Title: Liapunov's function  
1. Rozenvasser, Ye. N.

Office of Technical Services

Methods of Constructing a Lyapunov Function  
in the Theory of Nonlinear Control Systems,  
by A. I. Lur'ye, Ye. N. Rozenvasser, 22 pp.

RUSSIAN, ~~ENX~~ Proceedings of the First  
International Congress of the International  
Federation on Automatic Control, 27 Jun-  
7 Jul 1960. 9678103

FTD-TT-62-712

Sci - Phys  
Sep 62

211,091

The 1959 Budget, by Rozes, Michaudet, 7 pp.

FRENCH, per, PTT de France Revue des,  
January-Feb 1959, pp 2-6.

UBASIA: SC-375/60

HHX

WEur - France

Econ

Oct 61

170

~~100~~, 662

Some Questions Connected with the Theory of Combustion of Coal, by V. I. Rizinov, T. A. Rozet,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXVIII, No 3, 1949, pp 521-524.

ASLIB-6582

Sci

Aug 59

95, 3 30

On the Multiple Excitation of Atoms, by K. I.  
Rozgachev, V. A. Fabrikant, 2 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXIV,  
No 3, 1957, pp 528-529.

Amer Inst of Phys  
Sov Phys, "Doklady"  
Vol II, No 3

Sci - Phys

Mar 58

59,571

(FDD 24773)

Ferroelectric Properties of Solid Solutions in the  
Barium Titanate-Strontium Titanate System, by  
G. A. Smolenskiy, K. I. Rozgachev, 19 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV, No 10,  
Moscow, Oct 1954, pp 1751-1760.

CIA/FDD/U-7062

USSR  
Sci - Physics  
CTS 69/Jun 55

26,202



Ferroelectric Properties of Some Solid Solutions,  
G. A. Smolenskii, M. A. Karamyshev, and K. S.  
Rozgachev.

Full translation.

RUSSIAN, three-mo per. Dok Ak Nauk SSSR, Vol  
LXXIX, No 1, USSR, 1951, pp 53-56.

AEC Tr 1156

Scientific - Physics

Mar 52 CTS

A4859